

Hydrology Investigation

Data Work Sheet

School name: _____

Student group: _____

Site Name: _____

Sample collection date: _____ time: _____ (hours and minutes) check one: UT____ Local ____

Water temperature: _____°C

Transparency

Cloud cover (check one): ____ clear ____ scattered ____ broken ____ overcast

Secchi Disk:

Observer 1: Length of rope: when disk disappears: _____ m when disk reappears: _____ m

Observer 2: Length of rope: when disk disappears: _____ m when disk reappears: _____ m

Observer 3: Length of rope: when disk disappears: _____ m when disk reappears: _____ m

Distance from where the Observer 1 holds the rope to the Water Surface: _____ m

Distance from where the Observer 2 holds the rope to the Water Surface: _____ m

Distance from where the Observer 3 holds the rope to the Water Surface: _____ m

Turbidity Tube:

Water line in tube when image disappears:

Observer 1: _____ cm

Observer 2: _____ cm

Observer 3: _____ cm

Water Temperature

Observer 1: _____ °C Observer 2: _____ °C Observer 3: _____ °C Average: _____ °C

Dissolved Oxygen

Observer 1: _____ mg/L Observer 2: _____ mg/L Observer 3: _____ mg/L Average: _____ mg/L

Kit manufacturer and model: _____

pH

Measurement method: _____ paper _____ pen _____ meter

Value of buffers at site: pH 4: _____ pH 7: _____ pH 10: _____

Observer 1: _____ Observer 2: _____ Observer 3: _____ Average: _____

Conductivity

Conductivity Standard: _____ MicroSiemens/cm (μS/cm)

Observer 1: _____ μS/cm Observer 2: _____ μS/cm Observer 3: _____ μS/cm Average: _____ μS/cm

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Salinity

Tide Information

Time of tide before measurement: _____ hours and minutes

Check one: High Tide ____ Low Tide ____ Check one: UT ____ Local time ____

Time of tide after measurement: _____ hours and minutes

Check one: High Tide ____ Low Tide ____ Check one: UT ____ Local time ____

Place where these tides occur: _____

Salinity (Hydrometer Method)

	Observer 1	Observer 2	Observer 3
Temperature of water in the cylinder:	_____ °C	_____ °C	_____ °C
Specific Gravity:	_____	_____	_____
Salinity of Sample:	_____ ppt	_____ ppt	_____ ppt
Average Salinity:	_____ ppt		

Optional Salinity Titration

Salinity of Sample: Observer 1: _____ ppt Observer 2: _____ ppt Observer 3: _____ ppt

Average Salinity: _____ ppt

Kit manufacturer and model: _____

Alkalinity

For kits that read alkalinity directly

Observer 1: _____ mg/L as CaCO_3 Observer 2: _____ mg/L as CaCO_3 Observer 3: _____ mg/L as CaCO_3

Average: _____ mg/L as CaCO_3

Hach kits or other kits in which drops are counted:

	Observer 1	Observer 2	Observer 3	Average
Number of drops	_____ drops	_____ drops	_____ drops	_____ drops
Conversion constant				
for your kit and protocol:	x _____	x _____	x _____	x _____

Total Alkalinity (mg/L as CaCO_3) = _____ mg/L = _____ mg/L = _____ mg/L = _____ mg/L

Kit manufacturer and model: _____

Nitrate

Observer 1: _____ mg/L $\text{NO}_3^- - \text{N} + \text{NO}_2^- - \text{N}$ _____ mg/L $\text{NO}_2^- - \text{N}$

Observer 2: _____ mg/L $\text{NO}_3^- - \text{N} + \text{NO}_2^- - \text{N}$ _____ mg/L $\text{NO}_2^- - \text{N}$

Observer 3: _____ mg/L $\text{NO}_3^- - \text{N} + \text{NO}_2^- - \text{N}$ _____ mg/L $\text{NO}_2^- - \text{N}$

Average: _____ mg/L $\text{NO}_3^- - \text{N} + \text{NO}_2^- - \text{N}$ _____ mg/L $\text{NO}_2^- - \text{N}$

Kit manufacturer and model: _____